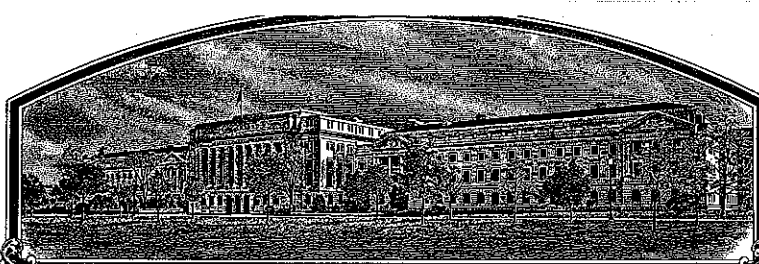


No.

200600052



# THE UNITED STATES OF AMERICA

TO ALL TO WHOM THESE PRESENTS SHALL COME:

*Syngenta Seeds, Inc.*

Whereas, THERE HAS BEEN PRESENTED TO THE

Secretary of Agriculture

AN APPLICATION REQUESTING A CERTIFICATE OF PROTECTION FOR AN ALLEGED DISTINCT VARIETY OF SEXUALLY REPRODUCED, OR TUBER PROPAGATED PLANT, THE NAME AND DESCRIPTION OF WHICH ARE CONTAINED IN THE APPLICATION AND EXHIBITS, A COPY OF WHICH IS HEREUNTO ANNEXED AND MADE A PART HEREOF, AND THE VARIOUS REQUIREMENTS OF LAW IN SUCH CASES MADE AND PROVIDED HAVE BEEN COMPLIED WITH, AND THE TITLE THERETO IS, FROM THE RECORDS OF THE PLANT VARIETY PROTECTION OFFICE, IN THE APPLICANT(S) INDICATED IN THE SAID COPY, AND WHEREAS, UPON DUE EXAMINATION MADE, THE SAID APPLICANT(S) IS (ARE) ADJUDGED TO BE ENTITLED TO A CERTIFICATE OF PLANT VARIETY PROTECTION UNDER THE LAW.

NOW, THEREFORE, THIS CERTIFICATE OF PLANT VARIETY PROTECTION IS TO GRANT UNTO THE SAID APPLICANT(S) AND THE SUCCESSORS, HEIRS OR ASSIGNS OF THE SAID APPLICANT(S) FOR THE TERM OF TWENTY YEARS FROM THE DATE OF THIS GRANT, SUBJECT TO THE PAYMENT OF THE REQUIRED FEES AND PERIODIC REPLENISHMENT OF VIABLE BASIC SEED OF THE VARIETY IN A PUBLIC REPOSITORY AS PROVIDED BY LAW, THE RIGHT TO EXCLUDE OTHERS FROM SELLING THE VARIETY, OR OFFERING IT FOR SALE, OR REPRODUCING IT, OR IMPORTING IT, OR EXPORTING IT, OR CONDITIONING IT FOR PROPAGATION, OR STOCKING IT FOR ANY OF THE FOREGOING PURPOSES, OR USING IT IN PRODUCING A HYBRID OR DIFFERENT VARIETY THEREFROM, TO THE EXTENT PROVIDED BY THE PLANT VARIETY PROTECTION ACT. (84 STAT. 1542, AS AMENDED, 7 U.S.C. 2321 ET SEQ.)

BEAN, GARDEN

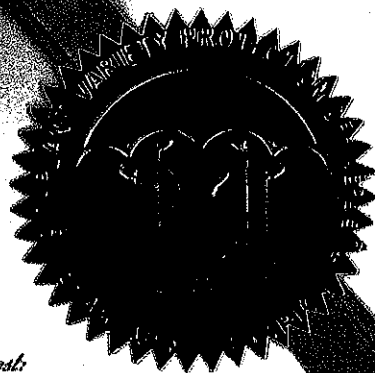
'RENEGADE'

*In Testimony Whereof, I have hereunto set my hand and caused the seal of the Plant Variety Protection Office to be affixed at the City of Washington, D.C. this ninth day of April, in the year two thousand and seven.*

Attest:

Commissioner  
Plant Variety Protection Office  
Agricultural Marketing Service

Secretary of Agriculture

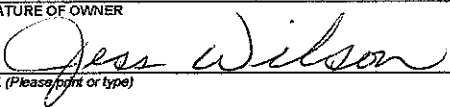


U.S. DEPARTMENT OF AGRICULTURE  
AGRICULTURAL MARKETING SERVICE  
SCIENCE AND TECHNOLOGY - PLANT VARIETY PROTECTION OFFICE

APPLICATION FOR PLANT VARIETY PROTECTION CERTIFICATE  
(Instructions and information collection burden statement on reverse)

The following statements are made in accordance with the Privacy Act of 1974 (5 U.S.C. 552a) and the Paperwork Reduction Act (PRA) of 1995.

Application is required in order to determine if a plant variety protection certificate is to be issued (7 U.S.C. 2421). Information is held confidential until certificate is issued (7 U.S.C. 2426).

1. NAME OF OWNER <b>Syngenta Seeds, Inc.</b>		2. TEMPORARY DESIGNATION OR EXPERIMENTAL NAME		3. VARIETY NAME <b>Renegade</b>	
4. ADDRESS (Street and No., or R.F.D. No., City, State, and ZIP Code, and Country) <b>600 N. Armstrong Place Boise, ID 83704</b>		5. TELEPHONE (include area code) <b>(208) 322-7272</b>		<b>FOR OFFICIAL USE ONLY</b> PVPO NUMBER <b>200600052</b> FILING DATE <b>DECEMBER 29, 2005</b>	
		6. FAX (include area code) <b>(208) 327-9319</b>			
7. IF THE OWNER NAMED IS NOT A "PERSON", GIVE FORM OF ORGANIZATION (corporation, partnership, association, etc.) <b>Corporation</b>		8. IF INCORPORATED, GIVE STATE OF INCORPORATION <b>DE</b>			
9. DATE OF INCORPORATION <b>February 25, 1975</b>		10. NAME AND ADDRESS OF OWNER REPRESENTATIVE(S) TO SERVE IN THIS APPLICATION. (First person listed will receive all papers)		FILING AND EXAMINATION FEES: \$ <b>4,382.00</b> DATE <b>12/29/05</b> CERTIFICATION FEE: \$ <b>768.00</b> DATE <b>3/06/2007</b>	
<b>Charleen Ortel</b> <b>Syngenta Seeds, Inc.</b> <b>600 N. Armstrong Pl.</b> <b>PO Box 4188</b> <b>Boise, ID 83711-4188</b> <b>MAH 2/22/07</b>		<b>Kim Briggs</b> <b>6338 Highway 20-26</b> <b>Nampa ID 83687</b>			
11. TELEPHONE (include area code) <b>(208) 327-7246 465-8522</b>		12. FAX (include area code) <b>(208) 327-9319 467-4559</b>		13. E-MAIL <b>charleen.ortel@syngenta.com Kim.briggs@syngenta.com</b>	
14. CROP KIND (Common Name) <b>Bean, Garden</b>		16. FAMILY NAME (Botanical) <b>Fabaceae</b>		18. DOES THE VARIETY CONTAIN ANY TRANSGENES? (OPTIONAL) <input type="checkbox"/> YES <input checked="" type="checkbox"/> NO IF SO, PLEASE GIVE THE ASSIGNED USDA-APHIS REFERENCE NUMBER FOR THE APPROVED PETITION TO DEREGULATE THE GENETICALLY MODIFIED PLANT FOR COMMERCIALIZATION.	
15. GENUS AND SPECIES NAME OF CROP <b>Phaseolus vulgaris L.</b>		17. IS THE VARIETY A FIRST GENERATION HYBRID? <input type="checkbox"/> YES <input checked="" type="checkbox"/> NO			
19. CHECK APPROPRIATE BOX FOR EACH ATTACHMENT SUBMITTED (Follow instructions on reverse)		20. DOES THE OWNER SPECIFY THAT SEED OF THIS VARIETY BE SOLD AS A CLASS OF CERTIFIED SEED? (See Section 83(a) of the Plant Variety Protection Act) <input type="checkbox"/> YES (if "yes", answer items 21 and 22 below) <input checked="" type="checkbox"/> NO (if "no", go to item 23)			
a. <input checked="" type="checkbox"/> Exhibit A. Origin and Breeding History of the Variety b. <input checked="" type="checkbox"/> Exhibit B. Statement of Distinctness c. <input checked="" type="checkbox"/> Exhibit C. Objective Description of Variety d. <input type="checkbox"/> Exhibit D. Additional Description of the Variety (Optional) e. <input checked="" type="checkbox"/> Exhibit E. Statement of the Basis of the Owner's Ownership f. <input checked="" type="checkbox"/> Statement that a Voucher Sample (4,000) viable untreated seeds or, for tuber propagated varieties, will be deposited and maintained in an approved public repository) <b>25 seed sample</b> g. <input checked="" type="checkbox"/> Filing and Examination Fee (\$4,382), made payable to "Treasurer of the United States" (Mail to the Plant Variety Protection Office)		21. DOES THE OWNER SPECIFY THAT SEED OF THIS VARIETY BE LIMITED AS TO NUMBER OF CLASSES? <input type="checkbox"/> YES <input type="checkbox"/> NO IF YES, WHICH CLASSES? <input type="checkbox"/> FOUNDATION <input type="checkbox"/> REGISTERED <input type="checkbox"/> CERTIFIED			
		22. DOES THE OWNER SPECIFY THAT SEED OF THIS VARIETY BE LIMITED AS TO NUMBER OF GENERATIONS? <input type="checkbox"/> YES <input type="checkbox"/> NO IF YES, SPECIFY THE NUMBER 1,2,3, etc. FOR EACH CLASS. <input type="checkbox"/> FOUNDATION <input type="checkbox"/> REGISTERED <input type="checkbox"/> CERTIFIED (If additional explanation is necessary, please use the space indicated on the reverse.)			
23. HAS THE VARIETY (INCLUDING ANY HARVESTED MATERIAL) OR A HYBRID PRODUCED FROM THIS VARIETY BEEN SOLD, DISPOSED OF, TRANSFERRED, OR USED IN THE U. S. OR OTHER COUNTRIES? <input checked="" type="checkbox"/> YES <input type="checkbox"/> NO IF YES, YOU MUST PROVIDE THE DATE OF FIRST SALE, DISPOSITION, TRANSFER, OR USE FOR EACH COUNTRY AND THE CIRCUMSTANCES. (Please use space indicated on reverse.)		24. IS THE VARIETY OR ANY COMPONENT OF THE VARIETY PROTECTED BY INTELLECTUAL PROPERTY RIGHT (PLANT BREEDER'S RIGHT OR PATENT)? <input checked="" type="checkbox"/> YES <input type="checkbox"/> NO IF YES, PLEASE GIVE COUNTRY, DATE OF FILING OR ISSUANCE AND ASSIGNED REFERENCE NUMBER. (Please use space indicated on reverse.)			
25. The owners declare that a viable sample of basic seed of the variety has been furnished with application and will be replenished upon request in accordance with such regulations as may be applicable, or for a tuber propagated variety a tissue culture will be deposited in a public repository and maintained for the duration of the certificate.  The undersigned owner(s) is(are) the owner of this sexually reproduced or tuber propagated plant variety, and believe(s) that the variety is new, distinct, uniform, and stable as required in Section 42, and is entitled to protection under the provisions of Section 42 of the Plant Variety Protection Act.  Owner(s) is (are) informed that false representation herein can jeopardize protection and result in penalties.					
SIGNATURE OF OWNER 		SIGNATURE OF OWNER			
NAME (Please print or type) <b>Jess Wilson</b>		NAME (Please print or type)			
CAPACITY OR TITLE <b>Vice President</b>		DATE <b>12/21/2005</b>		CAPACITY OR TITLE <b>Vice President</b>	
		DATE <b>12/21/2005</b>			

(See reverse for instructions and information collection burden statement)

**GENERAL:** To be effectively filed with the Plant Variety Protection Office (PVPO), ALL of the following items must be received in the PVPO: (1) Completed application form signed by the owner; (2) completed exhibits A, B, C, E; (3) for a seed reproduced variety at least 2,500 viable untreated seeds, for a hybrid variety at least 2,500 untreated seeds of each line necessary to reproduce the variety, or for tuber reproduced varieties verification that a viable (*in the sense that it will reproduce an entire plant*) tissue culture will be deposited and maintained in an approved public repository; (4) check drawn on a U.S. bank for \$3,652 (\$432 filing fee and \$3,220 examination fee), payable to "Treasurer of the United States" (See Section 97.6 of the Regulations and Rules of Practice.) Partial applications will be held in the PVPO for not more than 90 days, then returned to the applicant as unfilled. Mail application and other requirements to Plant Variety Protection Office, AMS, USDA, Room 401, NAL Building, 10301 Baltimore Avenue, Beltsville, MD 20705-2351. Retain one copy for your files. All items on the face of the application are self explanatory unless noted below. Corrections on the application form and exhibits must be initialed and dated. **DO NOT** use masking materials to make corrections. If a certificate is allowed, you will be requested to send a check payable to "Treasurer of the United States" in the amount of \$432 for issuance of the certificate. Certificates will be issued to owner, not licensee or agent.

Plant Variety Protection Office

Telephone: (301) 504-5518

FAX: (301) 504-5291

Homepage: <http://www.ams.usda.gov/science/pvpo/pvpindex.htm>

To avoid conflict with other variety names in use, the applicant must check the appropriate recognized authority and provide evidence that name has been cleared by the appropriate recognized authority before the Certificate of Protection is issued. For example, for agricultural and vegetable crops, contact: Seed Branch, AMS, USDA, 10301 Baltimore Avenue, Suite 401 NAL Building, Beltsville, MD 20705. Telephone: (301) 504-5682 <http://www.ams.usda.gov/lsg/seed.htm>.

#### ITEM

- 19a. Give:
- (1) the genealogy, including public and commercial varieties, lines, or clones used, and the breeding method;
  - (2) the details of subsequent stages of selection and multiplication;
  - (3) evidence of uniformity and stability; and
  - (4) the type and frequency of variants during reproduction and multiplication and state how these variants may be identified
- 19b. Give a summary of the variety's distinctness. Clearly state how this application variety may be distinguished from all other varieties in the same crop. If the new variety is most similar to one variety or a group of related varieties:
- (1) identify these varieties and state all differences objectively;
  - (2) attach statistical data for characters expressed numerically and demonstrate that these are clear differences; and
  - (3) submit, if helpful, seed and plant specimens or photographs (prints) of seed and plant comparisons which clearly indicate distinctness.
- 19c. Exhibit C forms are available from the PVPO Office for most crops; specify crop kind. Fill in Exhibit C (Objective Description of Variety) form as completely as possible to describe your variety.
- 19d. Optional additional characteristics and/or photographs. Describe any additional characteristics that cannot be accurately conveyed in Exhibit C. Use comparative varieties as is necessary to reveal more accurately the characteristics that are difficult to describe, such as plant habit, plant color, disease resistance, etc.
- 19e. Section 52(5) of the Act requires applicants to furnish a statement of the basis of the applicant's ownership. An Exhibit E form is available from the PVPO.
20. If "Yes" is specified (*seed of this variety be sold by variety name only, as a class of certified seed*), the applicant **MAY NOT** reverse this affirmative decision after the variety has been sold and so labeled, the decision published, or the certificate issued. However, if "No" has been specified, the applicant may change the choice. (See Regulations and Rules of Practice, Section 97.103).
23. See Sections 41, 42, and 43 of the Act and Section 97.5 of the regulations for eligibility requirements.
24. See Section 55 of the Act for instructions on claiming the benefit of an earlier filing date.

**22. CONTINUED FROM FRONT** (Please provide a statement as to the limitation and sequence of generations that may be certified.)

**23. CONTINUED FROM FRONT** (Please provide the date of first sale, disposition, transfer, or use for each country and the circumstances, if the variety (including any harvested material) or a hybrid produced from this variety has been sold, disposed of, transferred, or used in the U.S. or other countries.)

See Attached

**24. CONTINUED FROM FRONT** (Please give the country, date of filing or issuance, and assigned reference number, if the variety or any component of the variety is protected by intellectual property right (Plant Breeder's Right or Patent).)

Republic of South Africa: PBR application date: July 21, 2005, application number: PT 4492

**NOTES:** It is the responsibility of the applicant/owner to keep the PVPO informed of any changes of address or change of ownership or assignment or owner's representative during the life of the application/certificate. The fees for filing a change of address; owner's representative; ownership or assignment; or any modification of owner's name is specified in Section 97.175 of the regulations. (See Section 101 of the Act, and Sections 97.130, 97.131, 97.175(h) of the Regulations and Rules of Practice.)

According to the Paperwork Reduction Act of 1995, an agency may not conduct or sponsor, and a person is not required to respond to a collection of information unless it displays a valid OMB control number. The valid OMB control number for this information collection is 0581-0055. The time required to complete this information collection is estimated to average 1.4 hours per response, including the time for reviewing instructions, searching existing data sources, gathering and maintaining the data needed, and completing and reviewing the collection of information.

The U.S. Department of Agriculture (USDA) prohibits discrimination in all its programs and activities on the basis of race, color, national origin, gender, religion, age, disability, sexual orientation, marital or family status, political beliefs, parental status, or protected genetic information. (Not all prohibited bases apply to all programs.) Persons with disabilities who require alternative means for communication of program information (Braille, large print, audiotape, etc.) should contact USDA's TARGET Center at 202-720-2600 (voice and TDD).

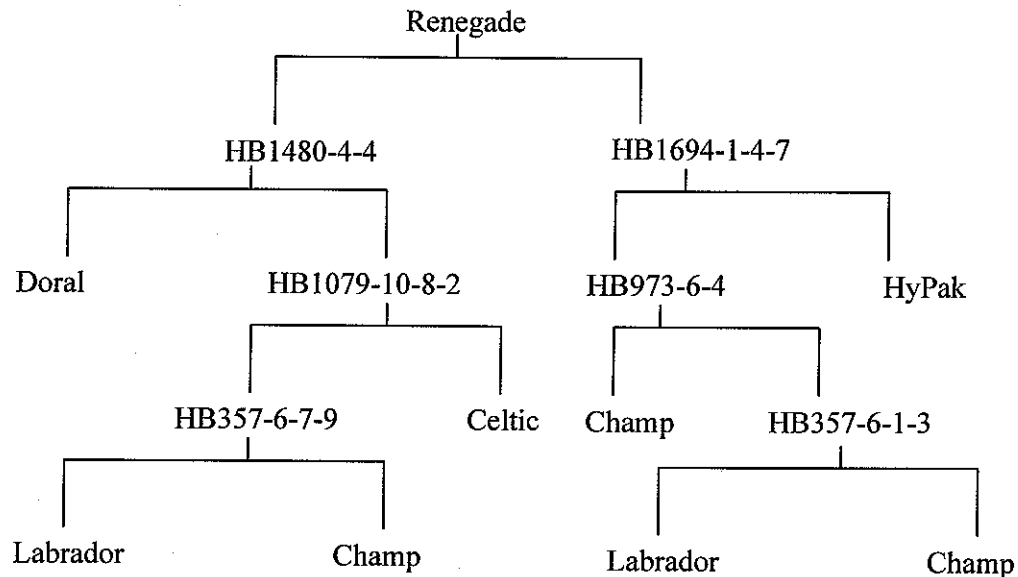
To file a complaint of discrimination, write USDA, Director, Office of Civil Rights, Room 326-W, Whitten Building, 14th and Independence Avenue, SW, Washington, DC 20250-9410 or call 202-720-5964 (voice and TDD). USDA is an equal opportunity provider and employer.

200600052

Syngenta Seeds, Inc.  
Garden Bean Renegade  
PVP Application  
Item 23

<u>Destination</u>		
<u>Country</u>	<u>Transfer Date</u>	<u>Circumstances</u>
Canada	Mar-05	Variety Trials
France	May-04	Variety Trials
Guatemala	Mar-04	Regional Adaptation Trials
Mexico	Mar-04	Regional Adaptation Trials
Netherlands	Apr-05	Variety Trials
USA	Feb-04	Variety Trials
Rep. South Africa	May-04	Variety Trials

Exhibit A  
Origin and Breeding History  
'Renegade'



'Renegade' originated from a hand pollinated cross between Syngenta Seeds, Inc. breeding lines HB1480-4-4 and HB1694-1-4-7. HB1480-4-4, HB1694-1-4-7, HB1079-10-8-2, HB973-6-4, HB357-6-7-9, and HB357-6-1-3 are Syngenta Seeds, Inc. breeding lines. Doral, Celtic, and Champ are Syngenta Seeds, Inc. varieties. 'HyPak' is a Harris Moran Seed Company variety and Labrador is a Seminis Seeds, Inc. variety.

Mass selection breeding method was followed from generations F2 through F4 to accumulate the traits of yield and stress tolerance. Selection by pedigree method for very dark 5 to 6 inch pods was applied in the F5. The F6 generation was bulk harvested to supply a seed source for further increases. 'Renegade' has been uniform and genetically stable for four generations of increases from the original F6. No variants were observed.

**Exhibit B**  
**Statement of Distinctness**  
**'Renegade'**

'Renegade' is a bush snap bean suitable for fresh markets that most closely resembles the variety 'Festina'. 'Renegade' differs statistically from 'Festina' in the following traits.

1. 'Renegade' and 'Festina' are significantly different in plant height. In Nampa, Idaho, 'Festina' was 5.7 cm greater in plant height than 'Renegade' and 4.6 cm greater in plant height in Stanton, Minnesota. See Attachment B-1 a, thru f.
2. There was a significant difference in five-sieve pod length. 'Festina' pod length was 0.68 cm longer than 'Renegade' in Nampa, Idaho, and 2 cm longer in Stanton, Minnesota. See Attachment B-2 a, thru f.

All reported values for plant height and five-sieve pod lengths are based on average measurements.

Data for plant height comparisons were collected in Nampa, Idaho and Stanton, Minnesota during the 2004 growing season. Twenty plants height measurements of each variety were taken at each location. Each plot was comprised of 100 plants.

Data for five-sieve pod length was collected from pods harvested in 2004 from each variety of 100 plant plots in Nampa, Idaho and Stanton, Minnesota. Random samples from a five-sieve lot were measured for pod length.

**Exhibit B**  
**Statement of Distinctness**  
**'Renegade'**

Explanation of statistical analysis variables used in the following attachments

PLHTFESTID = Plant Height (cm), Festina, Idaho  
PLHTSBID = Plant Height (cm), Renegade, Idaho  
PLHTFESTMN = Plant Height (cm), Festina, Minnesota  
PLHTSBMN = Plant Height (cm), Renegade, Minnesota

SV5PLFESTID = Five-Sieve Pod Length (cm), Festina, Idaho  
SV5PLSBID = Five-Sieve Pod Length (cm), Renegade, Idaho  
SV5PLFESTMN = Five-Sieve Pod Length (cm), Festina, Minnesota  
SV5PLSBMN = Five-Sieve Pod Length (cm), Renegade, Minnesota

200600052

Statistix 8.0

3/30/2005, 10:49:08 AM

**Descriptive Statistics**

Variable	N	Mean	SD	Minimum	Maximum
PLHTFESTID	20	49.050	4.3827	42.000	58.000
PLHTSBID	20	43.350	4.2953	35.000	53.000

Attachment B-1a  
Plant Height (cm)  
Descriptive Statistics  
'Festina' vs. 'Renegade'  
Nampa, Idaho  
2004

7



Statistix 8.0

3/30/2005, 10:47:36 AM

## One-Way AOV for: PLHTFESTID PLHTSBID

Source	DF	SS	MS	F	P
Between	1	324.90	324.900	17.3	0.0002
Within	38	715.50	18.829		
Total	39	1040.40			

Grand Mean 46.200 CV 9.39

	Chi-Sq	DF	P
Bartlett's Test of Equal Variances	0.01	1	0.9310
Cochran's Q	0.5101		
Largest Var / Smallest Var	1.0411		

Component of variance for between groups	15.3036
Effective cell size	20.0

Variable	Mean
PLHTFESTID	49.050
PLHTSBID	43.350
Observations per Mean	20
Standard Error of a Mean	0.9703
Std Error (Diff of 2 Means)	1.3722

8

Attachment B-1b  
 Plant Height (cm)  
 AOV  
 'Festina' vs. 'Renegade'  
 Nampa, Idaho  
 2004

200600052

Statistix 8.0

3/30/2005, 10:46:28 AM

**LSD All-Pairwise Comparisons Test**

Variable	Mean	Homogeneous Groups
PLHTFESTID	49.050	A
PLHTSBID	43.350	B

Alpha	0.05	Standard Error for Comparison	1.3722
Critical T Value	2.024	Critical Value for Comparison	2.7778

All 2 means are significantly different from one another.

Attachment B-1c  
Plant Height (cm)  
Comparison of Means  
'Festina' vs. 'Renegade'  
Nampa, Idaho  
2004

9

200600052

Statistix 8.0

3/30/2005, 10:50:39 AM

**Descriptive Statistics**

Variable	N	Mean	SD	Minimum	Maximum
PLHTFESTMN	20	54.450	3.9533	50.000	64.000
PLHTSBMN	20	49.800	4.3962	43.000	60.000

10

Attachment B-1d  
Plant Height (cm)  
Descriptive Statistics  
'Festina' vs. 'Renegade'  
Stanton, Minnesota  
2004

200600052

Statistix 8.0

3/30/2005, 10:51:31 AM

One-Way AOV for: PLHTFESTMN PLHTSBMN

Source	DF	SS	MS	F	P
Between	1	216.225	216.225	12.4	0.0011
Within	38	664.150	17.478		
Total	39	880.375			

Grand Mean 52.125 CV 8.02

	Chi-Sq	DF	P
Bartlett's Test of Equal Variances	0.21	1	0.6481
Cochran's Q	0.5529		
Largest Var / Smallest Var	1.2366		

Component of variance for between groups	9.93737
Effective cell size	20.0

Variable	Mean
PLHTFESTMN	54.450
PLHTSBMN	49.800
Observations per Mean	20
Standard Error of a Mean	0.9348
Std Error (Diff of 2 Means)	1.3220

Attachment B-1e  
 Plant Height (cm)  
 AOV  
 'Festina' vs. 'Renegade'  
 Stanton, Minnesota  
 2004

11

200600052

Statistix 8.0

3/30/2005, 10:52:29 AM

**LSD All-Pairwise Comparisons Test**

Variable	Mean	Homogeneous Groups
PLHTFESTMN	54.450	A
PLHTSBMN	49.800	B

Alpha	0.05	Standard Error for Comparison	1.3220
Critical T Value	2.024	Critical Value for Comparison	2.6763

All 2 means are significantly different from one another.

Attachment B-1f  
Plant Height (cm)  
Comparison of Means  
'Festina' vs. 'Renegade'  
Stanton, Minnesota  
2004

12

12

200600052

Statistix 8.0

3/30/2005, 11:06:00 AM

**Descriptive Statistics**

Variable	N	Mean	SD	Minimum	Maximum
SV5PLFESTID	20	14.495	0.9462	13.100	16.500
SV5PLSBID	20	13.815	0.7140	12.800	15.400

Attachment B-2a  
Five-Sieve Pod Length (cm)  
Descriptive Statistics  
'Festina' vs. 'Renegade'  
Nampa, Idaho  
2004

13

Statistix 8.0

3/30/2005, 11:07:17 AM

## One-Way AOV for: SV5PLFESTID SV5PLSBID

Source	DF	SS	MS	F	P
Between	1	4.6240	4.62400	6.58	0.0144
Within	38	26.6950	0.70250		
Total	39	31.3190			

Grand Mean 14.155 CV 5.92

	Chi-Sq	DF	P
Bartlett's Test of Equal Variances	1.45	1	0.2287
Cochran's Q	0.6372		
Largest Var / Smallest Var	1.7562		

Component of variance for between groups	0.19608
Effective cell size	20.0

Variable	Mean
SV5PLFESTID	14.495
SV5PLSBID	13.815
Observations per Mean	20
Standard Error of a Mean	0.1874
Std Error (Diff of 2 Means)	0.2650

Attachment B-2b  
 Five-Sieve Pod Length (cm)  
 AOV  
 'Festina' vs. 'Renegade'  
 Nampa, Idaho  
 2004

14

200600052

Statistix 8.0

3/30/2005, 11:07:52 AM

LSD All-Pairwise Comparisons Test

Variable	Mean	Homogeneous Groups
SV5PLFESTID	14.495	A
SV5PLSBID	13.815	B

Alpha	0.05	Standard Error for Comparison	0.2650
Critical T Value	2.024	Critical Value for Comparison	0.5366

All 2 means are significantly different from one another.

Attachment B-2c  
Five-Sieve Pod Length (cm)  
Comparison of Means  
'Festina' vs. 'Renegade'  
Nampa, Idaho  
2004

15



200600052

Statistix 8.0

3/30/2005, 11:09:52 AM

## Descriptive Statistics

Variable	N	Mean	SD	Minimum	Maximum
SV5PLFESTMN	20	16.095	1.0665	13.200	17.300
SV5PLSBMN	20	14.900	0.8278	13.400	16.700

Attachment B-2d  
Five-Sieve Pod Length (cm)  
Descriptive Statistics  
'Festina' vs. 'Renegade'  
Stanton, Minnesota  
2004

16

16

Statistix 8.0

3/30/2005, 11:11:07 AM

## One-Way AOV for: SV5PLFESTMN SV5PLSBMN

Source	DF	SS	MS	F	P
Between	1	14.2802	14.2802	15.7	0.0003
Within	38	34.6295	0.9113		
Total	39	48.9097			

Grand Mean 15.497 CV 6.16

	Chi-Sq	DF	P
Bartlett's Test of Equal Variances	1.18	1	0.2783
Cochran's Q	0.6240		
Largest Var / Smallest Var	1.6597		

Component of variance for between groups	0.66845
Effective cell size	20.0

Variable	Mean
SV5PLFESTMN	16.095
SV5PLSBMN	14.900
Observations per Mean	20
Standard Error of a Mean	0.2135
Std Error (Diff of 2 Means)	0.3019

Attachment B-2e  
 Five-Sieve Pod Length (cm)  
 AOV  
 'Festina' vs. 'Renegade'  
 Stanton, Minnesota  
 2004

200600052

Statistix 8.0

3/30/2005, 11:12:09 AM

**LSD All-Pairwise Comparisons Test**

**Variable      Mean    Homogeneous Groups**

SV5PLFESTMN 16.095 A

SV5PLSBMN 14.900 B

Alpha 0.05      Standard Error for Comparison 0.3019

Critical T Value 2.024      Critical Value for Comparison 0.6111

All 2 means are significantly different from one another.

Attachment B-2f  
Five-Sieve Pod Length (cm)  
Comparison of Means  
'Festina' vs. 'Renegade'  
Stanton, Minnesota  
2004

18

18

REPRODUCE LOCALLY. Include form number and date on all reproductions.

Form Approved OMB NO 0581-0055

According to the Paperwork Reduction Act of 1995, an agency may not conduct or sponsor, and a person is not required to respond to a collection of information unless it displays a valid OMB control number. The valid OMB control number for this information collection is 0581-0055. The time required to complete this information collection is estimated to average 3 hours per response, including the time for reviewing instructions, searching existing data sources, gathering and maintaining the data needed, and completing and reviewing the collection of information.

The U.S. Department of Agriculture (USDA) prohibits discrimination in all its programs and activities on the basis of race, color, national origin, gender, religion, age, disability, sexual orientation, marital or family status, political beliefs, parental status, or protected genetic information. (Not all prohibited bases apply to all programs.) Persons with disabilities who require alternative means for communication of program information (Braille, large print, audiotope, etc.) should contact USDA's TARGET Center at 202-720-2600 (voice and TDD).

To file a complaint of discrimination, write USDA, Director, Office of Civil Rights, Room 326-W, Whitten Building, 14th and Independence Avenue, SW, Washington, DC 20250-9410 or call 202-720-5964 (voice and TDD). USDA is an equal opportunity provider and employer.

U.S. DEPARTMENT OF AGRICULTURE  
AGRICULTURAL MARKETING SERVICE  
SCIENCE AND TECHNOLOGY  
PLANT VARIETY PROTECTION OFFICE  
BELTSVILLE, MD 20705

Exhibit C

OBJECTIVE DESCRIPTION OF VARIETY  
Garden Bean (*Phaseolus vulgaris* L.)

NAME OF APPLICANT (S) Syngenta Seeds, Inc	TEMPORARY OR EXPERIMENTAL DESIGNATION	VARIETY NAME Renegade
ADDRESS (Street and No. or RD No., City, State, Zip Code, and Country) 600 N. Armstrong Place Boise, ID 83704		PVPO NUMBER 200600052

## PLEASE READ ALL INSTRUCTIONS CAREFULLY:

Place the appropriate number that describes the varietal character of this variety in the boxes below. Place a zero in the first box (e.g., 099 or 09) when number is either 99 or less or 9 or less respectively. Data for quantitative plant characters should be based on a minimum of 100 plants. Comparative data should be determined from varieties centered in the same trial. Measured data should be for SPACED PLANTS. Ranges should also be given. Royal Horticultural Society or any recognized color standard may be used to determine plant colors; designate system used: \_\_\_\_\_

Please answer all questions for your variety; lack of response may delay progress of your application.

## 1. TYPE:

1 = Garden      2 = Flageolet      3 = Romano

## 2. MARKET MATURITY:

<input type="text" value="5"/> <input type="text" value="5"/> Days to Edible Pods	Comparison Varieties 1 = Tender crop 2 = Kentucky Wonder 3 = Gold rush 4 = Slenderette 5 = Gitana 6 = Provider 7 = Bush Blue Lake 290 8 = Other (Specify Below)
<input type="text" value="X"/> <input type="text" value="X"/> <input type="text" value="X"/> <input type="text" value="X"/> <input type="text" value="X"/> Heat Units to Edible Pods	
<input type="text" value="0"/> <input type="text" value="7"/> Number of Days Earlier Than	
<input type="text" value="0"/> <input type="text" value="5"/> Number of Days Later Than	

Comparison Variety:  } Same As

Comparison Variety:  } Not same height as any comparison varieties

Comparison Variety:  } Not taller than any comparison variety

## 3. PLANT:

cm Spacing Between Plants in a Row

Habit  
 1 = Determinate  
 2 = Indeterminate, Erect Stem and Branches  
 3 = Indeterminate with Weak and Prostrate Stem and Branches  
 4 = Indeterminate Climbing Habit with Weak, Long, and Twisted Stem and Branches

cm Height

cm Shorter Than

Same Height As

cm Taller Than

Comparison Variety

Use Comparison Varieties from Section 2

Not taller than any comparison variety

19

## 3. PLANT: (continued)

200600052

  cm Spread  cm Narrower Than

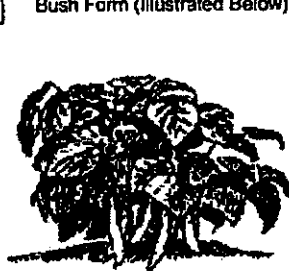
Same Width As

  cm Wider Than

Comparison Variety

Use Comparison Varieties from Section 2

Not wider than comparison varieties

 Pod Position: 1 = Low 2 = High 3 = Scattered Bush Form (Illustrated Below)

1 = Spherical Bush Form



2 = Stem Bush Form



3 = Wide Bush Form



4 = High Bush Form

5 = Other (Specify) \_\_\_\_\_

## 4. LEAVES:

 Surface: 1 = Dull 2 = Glossy 3 = Indeterminate Size: 1 = Small (Gitana) 2 = Medium 3 = Large (Tender Crop) Color: 1 = Light Green (as Light or Lighter than Gold Rush)  
2 = Medium Green  
3 = Dark Green (as Dark or Darker than Bush Blue Lake 290)

## 5. ANTHOCYANIN PIGMENT:

(1 = Absent

2 = Present)

 Flowers Stems Pods Seeds Leaves Petioles Peduncles Nodes

## 6. FLOWER COLOR AND DAYS TO BLOOM:

 Color of Standard Color of Wings Color of Keel  Days to 50% Bloom

## Flower Color Choices

1 = White 2 = Cream

3 = Pink 4 = Lilac

5 = Purple 6 = Blue

7 = Other (Specify) \_\_\_\_\_

## 7. PODS (Edible Maturity):

 Exterior Color:  
(Fresh)

1 = Light Green (as Light or Lighter than Provider)

2 = Medium Green

3 = Dark Green (as Dark or Darker than Bush Blue Lake 290)

4 = Yellow (Gold Rush)

5 = Green-red Variegated (Horticultural)

6 = Other (Specify) \_\_\_\_\_

Processed Pods (Exterior Color):

1 = Light (Tender Crop)

2 = Dark (Bush Blue Lake 290)

Dry Pod Color:

1 = Buckskin (Sprite)

2 = Green, Persistent Chlorophyll (Hystyle)

20

## 7. PODS (continued):

3

Cross Section Pod Shape:  
(Middle of the Pod)

1 = Flat

2 = Heart (Pear)

3 = Round

4 = Figure Eight



200600052

2

Crease Back:

1 = Present

2 = Absent

1

Pubescence:

1 = None (Slenderette)

2 = Sparse

3 = Considerable (Provider or Sprite)

2

Constriction (Interlocular Cavitation):

1 = None 2 = Slight 3 = Deep

1 2

mm Spur Length

2

Fiber:

1 = None (Bush Blue Lake 290)

2 = Sparse

3 = Considerable (Sprite)

6

Number of Seeds per Pod

2

Suture String:

1 = Present

2 = Absent

2

Seed Development:

1 = Slow (Bush Blue Lake 290)

2 = Medium

3 = Fast (Provider)

1

Machine Harvest:

1 = Adapted

2 = Not Adapted

Percent sieve size distribution at optimum maturity for not-flat pods

4.76 to 5.76mm	5.76 to 7.34mm	7.34 to 8.34mm	8.34 to 9.53mm	9.53 to 10.72 mm	>10.72mm
2 %	3 %	18 %	69 %	8 %	0 %

3 Sieve

1 2

cm Length

0 7

mm width

0 7

Total mm Thickness

4 Sieve

1 3

cm Length

0 9

mm width

0 9

Total mm Thickness

5 Sieve

1 4

cm Length

0 9

mm width

0 9

Total mm Thickness

6 Sieve

cm Length

mm width

Total mm Thickness

## 8. SEED COLOR:

3

Seed Coat Luster:

1 = Shiny 2 = Dull

3 = Semi-Shiny

4 = Variable

2

Seed Coat:

1 = Monochrome

2 = Polychrome

0 1

Primary Color:

1 = White

2 = Yellow

3 = Buff

4 = Tan

5 = Brown

6 = Pink

7 = Red

8 = Purple

9 = Blue

10 = Black

11 = Other

0 0

Secondary Color:

1 = White

2 = Yellow

3 = Buff

4 = Tan

5 = Brown

6 = Pink

7 = Red

8 = Purple

9 = Blue

10 = Black

11 = Other

1

Seed Coat Pattern:

1 = Solid

2 = Splashed

3 = Mottled

4 = Striped

5 = Flecked

6 = Dotted

2

Hilar Ring:

1 = Absent

2 = Present

0 2

Hilar Ring Color:

1 = White

2 = Yellow

3 = Buff

4 = Tan

5 = Brown

6 = Pink

7 = Red

8 = Purple

9 = Blue

10 = Black

11 = Other

## 9. SEED SHAPE AND SIZE:

1

Hilum View:



1 = Elliptical



2 = Oval



3 = Round

2

Cross Section:

1 = Elliptical

2 = Oval

3 = Cordate

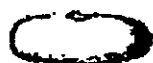
4 = Round

21

## 9. SEED SHAPE AND SIZE: (continued)

3

Side View:



1 = Oval to Oblong



2 = Round



3 = Reniform

200600052

2 9

gm/100 Seeds

0 4

gm/100 Seeds Lighter Than

0 6

gm/100 Seeds Heavier Than

☐  
☐  
☐

Comparison Variety

## 10. DISEASE RESISTANCE: 0 = Not Tested 1 = Susceptible 2 = Resistant 3 = Intermediate 4 = Tolerant

0

Anthracnose (*Colletotrichum lindemuthianum*)
☐  
☐  
☐

Race Alpha

Race Delta

Race Kappa

☐  
☐  
☐

Race Beta

Race Epsilon

Specify Race

☐  
☐

Race Gamma

Race Lambda

0

Bean Rust (*Uromyces appendiculatus*)
☐  
☐  
☐  
☐

Race 38

Race 45

Race 51

Race 59

☐  
☐  
☐  
☐

Race 39

Race 46

Race 52

Specify Race

☐  
☐  
☐

Race 40

Race 49

Race 54

☐  
☐  
☐

Race 44

Race 50

Race 56

0

Powdery Mildew (*Erysiphe polygoni*)

0

Fusarium Root Rot (*Fusarium solani* f. sp. *phaseoli*)

0

Pythium Root Rot (*Pythium* spp.)

0

Aphanomyces Root Rot (*Aphanomyces euteiches*)

0

Rhizoctonia Root Rot (*Rhizoctonia solani*)

0

Pythium Blight or Aerial Pythium (*Pythium ultimum*)

0

Angular Leaf Spot (*Isariopsis griseola*)

0

Bacterial Wilt (*Corynebacterium flaccumfaciens* subsp. *flaccumfaciens*)

0

Bacterial Brown Spot (*Pseudomonas syringae* pv. *syringae*)

0

Common Bacterial Blight (*Xanthomonas campestris* pv. *phaseoli*)

0

Halo Blight (*Pseudomonas syringae* pv. *phaseolicola*)
☐

Race 1

☐

Race 2

0

Clover Yellow Vein Virus (CYVV)

0

Bean Common Mosaic Virus (BCMV)

☐  
☐  
☐

BV1

NL4

Mexican

Other (Specify)

☐  
☐  
☐

NY15

NL8

Western

☐  
☐  
☐

NL2

Florida

Type

☐  
☐

NL3

Idaho

0

Yellow Bean Mosaic Virus (BYMV)

0

Curly Top Virus (CTV)

0

Other (Specify Disease and Race or Strain)

200600052

**11. INSECT RESISTANCE:** 0 = Not Tested 1 = Susceptible 2 = Resistant 3 = Intermediate 4 = Tolerant☐  
☐  
☐  
☐  
☐

Aphid

Leafhopper

Lygus

Pod Borer

Other (Specify) \_\_\_\_\_

☐  
☐  
☐  
☐

Root Knot Nematode

Seed Corn Maggot

Thrips

Weevils

**12. PHYSIOLOGICAL RESISTANCE:** 0 = Not Tested 1 = Susceptible 2 = Resistant 3 = Intermediate 4 = Tolerant☐  
☐  
☐

Heat

Air Pollution

Other (Specify) \_\_\_\_\_

☐  
☐

Cold

Ozone

☐

Drought

**13. COMMENTS:**



U.S. DEPARTMENT OF AGRICULTURE  
AGRICULTURAL MARKETING SERVICE

Application is required in order to determine if a plant variety protection certificate is to be issued (7 U.S.C. 2421). The information is held confidential until the certificate is issued (7 U.S.C. 2426).

**EXHIBIT E**  
**STATEMENT OF THE BASIS OF OWNERSHIP**

1. NAME OF APPLICANT(S)  Syngenta Seeds, Inc.	2. TEMPORARY DESIGNATION OR EXPERIMENTAL NUMBER	3. VARIETY NAME  Renegade
4. ADDRESS (Street and No., or R.F.D. No., City, State, and ZIP, and Country)  600 North Armstrong Place Boise, ID 83704	5. TELEPHONE (Include area code)  208-465-8522	6. FAX (Include area code)  208-467-4559
	7. PVPO NUMBER  200600052	

8. Does the applicant own all rights to the variety? Mark an "X" in the appropriate block. If no, please explain. ☒ YES ☐ NO

9. Is the applicant (individual or company) a U.S. national or a U.S. based company? If no, give name of country. ☒ YES ☐ NO

10. Is the applicant the original owner? ☒ YES ☐ NO If no, please answer one of the following:

a. If the original rights to variety were owned by individual(s), is (are) the original owner(s) a U.S. National(s)?

☐ YES ☐ NO If no, give name of country

b. If the original rights to variety were owned by a company(ies), is (are) the original owner(s) a U.S. based company?

☐ YES ☐ NO If no, give name of country

11. Additional explanation on ownership (Trace ownership from original breeder to current owner. Use the reverse for extra space if needed):

Same as on original application.

Garden Bean, Renegade, was bred and developed by plant breeders employed by Syngenta Seeds. By agreement between the employee and Syngenta Seeds, all rights to any invention, discovery or development made by the employee while employed by Syngenta Seeds were assigned to Syngenta Seeds, with no rights retained by the employee

**PLEASE NOTE:**

Plant variety protection can only be afforded to the owners (not licensees) who meet the following criteria:

1. If the rights to the variety are owned by the original breeder, that person must be a U.S. national, national of a UPOV member country, or national of a country which affords similar protection to nationals of the U.S. for the same genus and species.
2. If the rights to the variety are owned by the company which employed the original breeder(s), the company must be U.S. based, owned by nationals of a UPOV member country, or owned by nationals of a country which affords similar protection to nationals of the U.S. for the same genus and species.
3. If the applicant is an owner who is not the original owner, both the original owner and the applicant must meet one of the above criteria.

The original breeder/owner may be the individual or company who directed the final breeding. See Section 41(a)(2) of the Plant Variety Protection Act for definitions.

According to the Paperwork Reduction Act of 1995, an agency may not conduct or sponsor, and a person is not required to respond to a collection of information unless it displays a valid OMB control number. The valid OMB control number for this information collection is 0581-0055. The time required to complete this information collection is estimated to average 0.1 hour per response, including the time for reviewing the instructions, searching existing data sources, gathering and maintaining the data needed, and completing and reviewing the collection of information.

The U.S. Department of Agriculture (USDA) prohibits discrimination in all its programs and activities on the basis of race, color, national origin, age, disability, and where applicable, sex, marital status, familial status, parental status, religion, sexual orientation, genetic information, political beliefs, reprisal, or because all or part of an individual's income is derived from any public assistance program (Not all prohibited bases apply to all programs.) Persons with disabilities who require alternative means for communication of program information (Braille, large print, audiotope, etc.) should contact USDA's TARGET Center at (202) 720-2600 (voice and TDD).

To file a complaint of discrimination, write to USDA, Director, Office of Civil Rights, 1400 Independence Avenue, S.W., Washington, D.C. 20250-9410, or call (800) 795-3272 (voice) or (202) 720-6382 (TDD). USDA is an equal opportunity provider and employer.

According to the Paperwork Reduction Act of 1995, an agency may not conduct or sponsor, and a person is not required to respond to a collection of information unless it displays a valid OMB control number. The valid OMB control number for this information collection is 0581-0055. The time required to complete this information collection is estimated to average 5 minutes per response, including the time for reviewing instructions, searching existing data sources, gathering and maintaining the data needed, and completing and reviewing the collection of information.

The U.S. Department of Agriculture (USDA) prohibits discrimination in all its programs and activities on the basis of race, color, national origin, gender, religion, age, disability, sexual orientation, marital or family status, political beliefs, parental status, or protected genetic information. (Not all prohibited bases apply to all programs.) Persons with disabilities who require alternative means for communication of program information (Braille, large print, audiotape, etc.) should contact USDA's TARGET Center at 202-720-2600 (voice and TDD).

To file a complaint of discrimination, write USDA, Director, Office of Civil Rights, Room 326-W, Whitten Building, 14th and Independence Avenue, SW, Washington, DC 20250-9410 or call 202-720-5964 (voice and TDD). USDA is an equal opportunity provider and employer.

U.S. DEPARTMENT OF AGRICULTURE  
AGRICULTURAL MARKETING SERVICE  
SCIENCE AND TECHNOLOGY  
PLANT VARIETY PROTECTION OFFICE  
BELTSVILLE, MD 20705

EXHIBIT F  
DECLARATION REGARDING DEPOSIT

NAME OF OWNER (S) Syngenta Seeds, Inc.	ADDRESS (Street and No. or RD No., City, State, and Zip Code and Country) 600 North Armstrong Place Boise, ID 83704 USA	TEMPORARY OR EXPERIMENTAL DESIGNATION  VARIETY NAME Renegade
NAME OF OWNER REPRESENTATIVE (S) Kim Briggs	ADDRESS (Street and No. or RD No., City, State, and Zip Code and Country) 6338 Highway 20-26 Nampa, ID 83687	FOR OFFICIAL USE ONLY  PVPO NUMBER 200600052

I do hereby declare that during the life of the certificate a viable sample of propagating material of the subject variety will be deposited, and replenished as needed periodically, in a public repository in the United States in accordance with the regulations established by the Plant Variety Protection Office.

Kim Briggs  
Signature

02-14-2007  
Date

25